

substituents. The polyamides possessed inherent viscosities of 0.33-0.81 dL/g and glass transition temps. of 230-251.degree. measured with DSC. All the polyamides were amorphous and readily sol. in NMP, DMAc, DMF, and DMSO. Incorporating DOPO groups into polyamides resulted in polymers with low initial decompn. temps. (IDT, 310-362.degree.), deriving from the decompn. of the DOPO groups. With thermogravimetric anal. (TGA), the DOPO-contg. polyamides exhibited high integral procedure decompn. temps. (IPDT) of 928-1086.degree., to indicate improvement on polyamides' wt. loss rate, thermal stability, and heat insulating property at high temp. region. High tensile strength of 42.0-52.8 MPa and Young's modulus of 506-869 MPa measured with stress-strain tests were obsd. for the polyamides to indicate these polymers possessing good mech. properties.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 54 CAPLUS COPYRIGHT 2003 ACS

AN 2002:564980 CAPLUS

DN 137:95113

TI Polyurethane spandex fibers prepared using amide linkages-containing diamine chain extender

IN Chen, Wei-Liang; Shiau, Kai-Ren

PA Industrial Technology Research Institute, Taiwan

SO Taiwan, 12 pp.

CODEN: TWXXA5

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	TW 389776	B	20000511	TW 1995-84100802	19950127
				TW 1995-84100802	19950127

IT **442155-44-4P 442155-47-7P**

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polyurethane spandex fibers prepd. using amide linkages-contg. diamine chain extender)

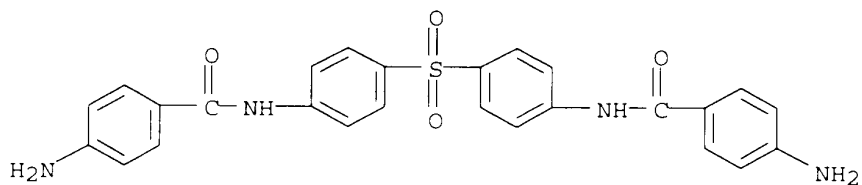
RN 442155-44-4 CAPLUS

CN Benzamide, N,N'-(sulfonyldi-4,1-phenylene)bis[4-amino-, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 1,1'-methylenebis[4-isocyanatobenzene], block (9CI) (CA INDEX NAME)

CM 1

CRN 34066-80-3

CMF C26 H22 N4 O4 S

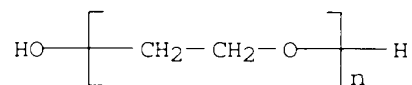


CM 2

Patel

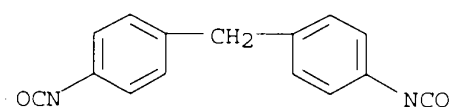
<4/25/2003>

CRN 25322-68-3
 CMF (C2 H4 O)_n H2 O
 CCI PMS



CM 3

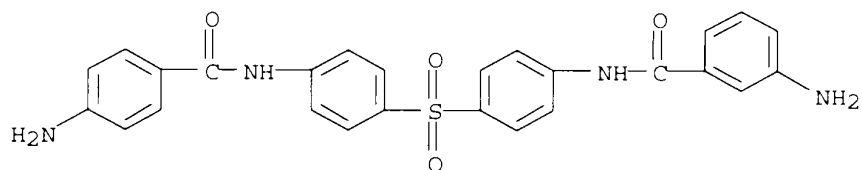
CRN 101-68-8
 CMF C15 H10 N2 O2



RN 442155-47-7 CAPLUS
 CN Benzamide, 3-amino-N-[4-[[4-[(4-aminobenzoyl)amino]phenyl]sulfonyl]phenyl]-, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 1,1'-methylenebis[4-isocyanatobenzene], block (9CI) (CA INDEX NAME)

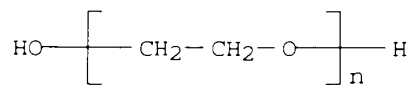
CM 1

CRN 201945-51-9
 CMF C26 H22 N4 O4 S



CM 2

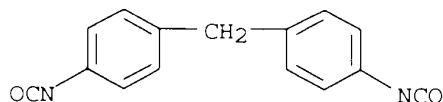
CRN 25322-68-3
 CMF (C2 H4 O)_n H2 O
 CCI PMS



CM 3

CRN 101-68-8

CMF C15 H10 N2 O2



AB The polyurethane is prepd. from diamide chain extender contg. amide linkages, diisocyanate and polyol. The polyurethane is a polymeric elastomer suitable for the prepn. of polyurethane products such as films, fibers and elastomers having high strength, elasticity, elongation and heat resistance. The hard segment of the polyurethane is 25-40%. The mol. wt. of the polyethylene glycol is 1000-4800. The diisocyanate is 4,4'-methylenebis(Ph isocyanate). Reaction of hexamethylenediamine with p-nitrobenzoyl chloride and hydrogenation gave an amide diamine with m.p. 152-154.degree.. A spandex fiber was prepd. using this amide diamine, 4,4'-MDI, and polyethylene glycol.

L4 ANSWER 12 OF 54 CAPLUS COPYRIGHT 2003 ACS

AN 2002:532380 CAPLUS

DN 137:325724

TI Rapid synthesis of optically active poly(amide-imide)s by direct polycondensation of aromatic dicarboxylic acid with aromatic diamines

AU Mallakpour, Shadpour E.; Hajipour, Abdol-Reza; Khoei, Sepideh

CS Organic Polymer Chemistry Research Laboratory, Isfahan University of Technology, College of Chemistry, Esfahan, 84156, Iran

SO European Polymer Journal (2002), 38(10), 2011-2016

CODEN: EUPJAG; ISSN: 0014-3057

PB Elsevier Science Ltd.

DT Journal

LA English

IT **473554-21-1P 473554-31-3P 473554-35-7P**

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of optically active poly(amide-imide)s from arom. dicarboxylic acid with arom. diamines)

RN 473554-21-1 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)[(1S)-1-(2-methylpropyl)-2-oxo-1,2-ethanediyl]imino-1,4-phenylenecarbonylimino-1,4-phenylenesulfonyl-1,4-phenyleneiminocarbonyl-1,4-phenyleneimino[(2S)-2-(2-methylpropyl)-1-oxo-1,2-ethanediyl]] (9CI)
(CA INDEX NAME)

